

an output circuit [for] transmitting said sum signal on said communication link,
wherein said carrier signals comprise first and second carriers, said first carrier having a
different bandwidth than said second carrier; and

a receiver comprising:

B3
Cont.

an input circuit for receiving and storing M time-domain samples transmitted
on said communication link; and

C
C
a decoder for recovering said M symbol values, said decoder comprising a tree-
structured array of sub-band filter banks, said received M time-domain samples
forming the input of a root node of said tree-structured array and said M symbol values
being generated by the leaf nodes of said tree-structured array, each said sub-band filter
bank comprising a plurality of FIR filters having a common input for receiving an
input time-domain signal, each said filter generating an output signal representing a
symbol value in a corresponding frequency band.

REMARKS

Claims 1-3 were presented for examination. Applicants hereby amend claims 1-3 and add claim 4. Claims 1-4 are now presented for examination. Reconsideration of these claims is respectfully requested.

Allowable Subject Matter

The Office Action indicates that Claims 2 and 3 would be allowable if rewritten in independent form including all base and intervening claim limitations.

Applicants have amended independent claim 1 to include the allowable subject matter of claim 2. In effect, claim 1 is claim 2 rewritten in independent form to include the limitations of the base claim 1. Applicants have also added independent claim 4, which is dependent claim 3 rewritten in independent form to include the limitations of base claim 1. No new matter has

been added. Accordingly, Applicants submit that the independent claims 1 and 4 are allowable, having been put into independent form. Consequently, dependent claims 2 and 3, which depend from allowable claims 1 and 4 are also allowable.

Rejection of Claim 1 under 35 U.S.C. §103

Claim 1 is rejected under 35 U.S.C. 103 as being unpatentable over Chow (U.S. Patent No. 5,749,447).

The Applicants have amended the claims as described above solely to obtain allowance of the allowable subject matter, thus rendering this rejection moot. Applicants expressly reserve the right to traverse the scope of the cited reference in any subsequent related application.

CONCLUSION

In view of the arguments made herein, Applicants submit that the application is in condition for allowance and requests favorable action by the Examiner.

If the Examiner believes that a telephone conversation with Applicants' attorney would expedite allowance of this application, the Examiner is cordially invited to call the undersigned attorney at (617) 248-7501.

Respectfully submitted,

Date: March 21, 2000
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570MAR4572.A956507-1

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